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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/615,784 07/10/2003		07/10/2003	Kiyoshi Kimura	2018-744	18-744 1494		
23117	7590	02/17/2005		EXAMINER			
		ERHYE, PC	SCHEUERMAN	SCHEUERMANN, DAVID W			
1100 N GL 8TH FLOO		D.		ART UNIT	PAPER NUMBER		
ARLINGTO	ON, VA	22201-4714	2834				
	-			DATE MAILED: 02/17/2005	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application	No.	Applicant(s)	
	Office Author Occasion	10/615,784		KIMURA ET AL.	(CM)
	Office Action Summary	Examiner		Art Unit	
		David W. Sc		2834	
Period fo	The MAILING DATE of this communication ap or Reply	pears on the c	over sheet with the	correspondence addr	9SS
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statution reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, oly within the statuto will apply and will e te, cause the applica	however, may a reply be ti ry minimum of thirty (30) da xpire SIX (6) MONTHS fron tion to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this comr ED (35 U.S.C. § 133).	nunication.
1)	Pasnansive to communication(s) filed on 10	luly 2002			
· _	Responsive to communication(s) filed on <u>10</u>		an Smal		
2a)□	•	his action is no			
3)	Since this application is in condition for allow closed in accordance with the practice under	<i>r</i> ance except f r <i>Ex part</i> e Qua	or formal matters, p yle, 1935 C.D. 11,	prosecution as to the i 453 O.G. 213.	merits is
<u>-</u>	ion of Claims				
4) 🔀	Claim(s) <u>1-12</u> is/are pending in the application				
- \-	4a) Of the above claim(s) is/are withdra	awn from cons	ideration.		
5)∐	Claim(s) is/are allowed.				
	Claim(s) <u>1-12</u> is/are rejected.	4			
7)니	Claim(s) is/are objected to.		•		
	Claim(s) are subject to restriction and/o	or election req	uirement.		
	ion Papers				
	The specification is objected to by the Examine				
10) ∑	The drawing(s) filed on 10 July 2003 is/are: a)		·		
441	Applicant may not request that any objection to the		•	• •	
11)[, , ,	oved by the Examiner.	
12)□	If approved, corrected drawings are required in re		e action.		
	The oath or declaration is objected to by the Ex	xaminer.			
-	ander 35 U.S.C. §§ 119 and 120				
	Acknowledgment is made of a claim for foreig	n priority unde	er 35 Ų.S.C. § 119(a)-(d) or (f).	-
a)	☑ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority document				
	2. Certified copies of the priority document	ts have been	received in Applicat	tion No	
* ~	3. Copies of the certified copies of the prior application from the International Bu	ureau (PCT Ri	ule 17.2(a)).		age
_	See the attached detailed Office action for a list		-		
	Acknowledgment is made of a claim for domest			•	oplication).
) \square The translation of the foreign language $\operatorname{\sf prot}$				
Attachmen	t(s)				
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5	Notice of Informal	y (PTO-413) Paper No(s). Patent Application (PTO-1	

Application/Control Number: 10/615,784

Art Unit: 2834

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 7, 8, 11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Igarashi, JP 06233483. Igarashi discloses:

A rotary electric machine comprising:

a stator (see figure 1) including a stator core having a plurality of teeth and stator coils mounted on the teeth, each said stator coil including a bobbin that is fitted to one of the teeth and a phase coil would around the bobbin each said bobbin including a bobbin terminal for connecting opposite ends of the phase coil; and

a stator housing for accommodating said stator, said stator housing including an insert mold to be connectable to an outside electric device (inherent), each said stator terminal has a first contact portion (32);

wherein each said bobbin terminal has a second contact portion (38) in contact with the first contact portion when said stator is accommodated in said stator housing.

Art Unit: 2834

As to claim 4, it is inherent that frame 16 holding terminals 32 and 38 is of a resinous non-conducting material to prevent an electrical short.

In re claim 7, note that the coils are grouped into groups as indicated by the three terminals 38.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 5, 6, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Igarashi in view of Batten et al., US 5770902. Igarashi discloses the invention

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substantially as claimed as set forth in the rejection supra with respect to claim 1. Igarashi does not expressly disclose; "... wherein said stator housing further comprises ... a metal reinforcement plate for supporting a ball bearing that rotatably supports an end of said rotor.", "... wherein said stator housing has a center bore for supporting said ball bearing, and wherein said center bore has an inside surface the diameter of which is formed with reference to one of an outside diameter and inside diameter of said stator.", or "... further comprising as sensor connector for connecting said sensor terminals to an outside electric device, wherein said stator housing further included rotation angle detector and a plurality of sensor terminals embedded in said insert mold. and wherein said stator terminals and said sensor connector are integrated." Batten et al. disclose or suggest a motor termination board see figure 2, for the purpose of facilitating interconnection of control components and power components in a brushless DC motor (see abstract). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to include a metal ball bearing reinforcement plate and control components (note angle sensors 26) in the stator housing of Igarashi as taught by Batten et al. While Batten et al. do not expressly disclose that bearing insert 33 is for a ball bearing, Official Notice is taken that ball bearings used to support a motor shaft are well know in the motor art to reduce rotational friction while ruggedly supporting said motor shaft, and as such it would have been obvious to one of ordinary skill in the art to use ball bearings in the motor of Igarashi and Batten et al. One of ordinary skill in the art would have been motivated to do this for facilitating interconnection of control components and power components.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David W. Scheuermann whose telephone number is (571) 272-2035. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached at (571) 272-2044. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.

dws February 11, 2005

> DABREN SCHUBERG SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800